

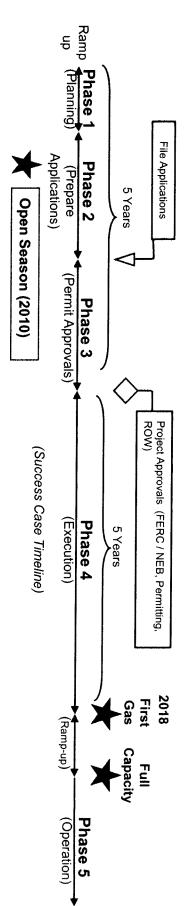
#### Alaska State Legislature House Energy Committee

April 7th, 2009

Together: moving. energy.



### enali – On track for success



- Denali organization in place. Open season in 2010
- Denali believes there will be a place for Alaska gas in the North American market
- Alaska gas is a key part of the President's energy plan
- Natural gas is the fuel of choice viewed as the bridge to renewables
- will have recovered in the next 9 to 10 years. Anticipate the US and World economies and natural gas demand
- The economy has not changed our focus

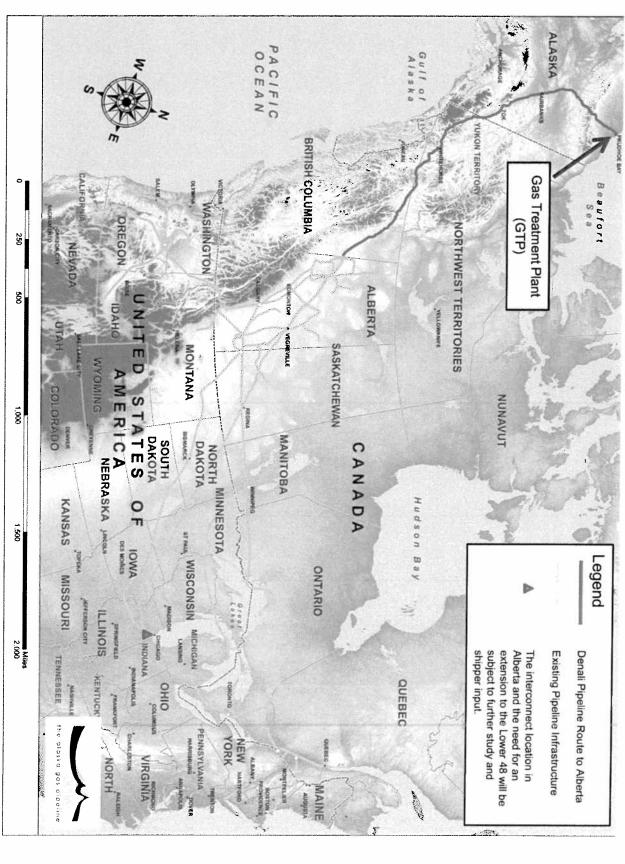


### Denali Project Description

- Gas Treatment Plant (GTP) at Prudhoe Bay
- Remove CO2, dehydrate, compress and chill the gas
- Buried, large diameter, high pressure (~2,500 psi) pipeline
- Compressor stations every 100 to 200 miles at >40,000 hp each
- About 2,000 miles to Alberta, requiring (~2-3 million tons of steel)
- Possibly another 1,500 miles to US markets (~2 million tons of steel)
- ~4bcfd to North American consumers (6-8% US daily consumption)

require world-class project execution skills Denali will be the largest private energy project in North America, and will

# The Denali Project — 4 BCFD to North American consumers





### Denali Terms of Service

- Denali is an Open Access pipeline It's the law
- "People have open access to the pipeline, not just the producers." (FERC testimony to Joint AGIA Committee, June 16, 2008)
- Distance sensitive transportation rates for local use
- Design will provide for efficient expandability
- Solicit shippers every two years regarding expansion
- Will provide at least five offtake points within Alaska
- Will provide offtake points in Canada if warranted



# Regulatory Frameworks – Canada and U.S.

#### Canada

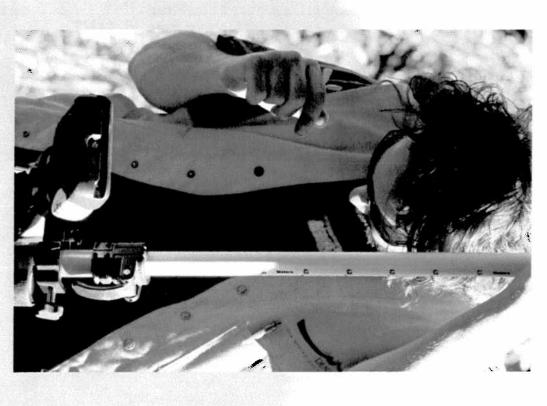
- Two regulatory frameworks are available in Canada:
- Northern Pipeline Act (NPA) established more than 3 decades ago; available exclusively to one party
- National Energy Board Act a modern, non-exclusive process that is open for use by any project proponent
- Denali will use the modern-day National Energy Board (NEB) process No significant advantage to pursue project outside NEB framework

#### C.S.

- The Federal Energy Regulatory Commission (FERC) is responsible for authorizing the project
- The Alaska Gasline Inducement Act (AGIA) is not an exclusive license to build a pipeline. Denali does not need AGIA to move forward



# Denali Progress – Key Accomplishments



### Spent ~\$55 million in 2008

- Project Team mobilized
- Established Anchorage Headquarters
- Established Canadian Headquarters
- FERC pre-filing request approved
- Filed Right of Way on federal lands with Bureau of Land Management
- Successful 2008 summer field program
- Community outreach meetings in Alaska and Canada
- Established Archeology Technician program with UAF
- Member of AK DOL workforce development task force
- Met with Alaska, U.S. and Canadian government officials
- engineering Awarded contracts for multi-million dollar Gas Treatment Plant and Pipeline preliminary



# FERC Pre-filing and BLM Right of Way Application

#### FERC Pre-filing:

- Enables Denali and FERC to exchange information and coordinate work activities cooperatively and efficiently
- Ensures a timely application development and review process
- complexity The FERC requested that Denali pre-file due to project size and

### BLM Right of Way Application:

- Initiated formal ROW process with Bureau of Land Management (BLM)
- Enables direct BLM involvement in Denali's planning process
- under BLM jurisdiction One third of Denali's 730 mile pipeline route in Alaska crosses land



### 2008 Work

### **Summer Field Work**

- Outstanding safety record
- Tok field office
- Surveyed over 200 miles of wetlands
- Investigated 70 archeological sites
- Shot over 1700 miles of ortho-photography
- Shot 730 miles of "immersive" video
- Investigated 538 potential stream/river crossings
- Performed route reconnaissance
- Identified contaminated sites
- As many as 80 people in the field



### **Engineering Progressed**

- Route optimizations
- Technical studies
- Environmental assessments
- Cost estimates and schedules
- Plan project execution
- ~100 people engaged



### Who's Been Working with Denali?





















































J.D.Fiair&Associates,Inc.



























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\$55 million spent in 2008



## Two Major Engineering Contracts Awarded

#### Fluor / Worley Parsons ARCTIC SOLUTIONS

# Fluor WorleyParsons Arctic Solutions (Gas Treatment Plant)

- Major elements include technical studies, design basis, execution planning, cost estimating, and schedule development
- Arctic Solutions has significant arctic and North Slope experience. strong capability in the design and construction of mega projects in



## Bechtel (Mainline - pipeline and compressor stations)

- Major elements include engineering, design basis development, cost logistics assessments estimating, scheduling, procurement planning and infrastructure and
- Bechtel has extensive experience designing and constructing major design and construction of megaprojects worldwide pipelines, including some of the world's longest. Long history of

Together, moving, energy.



# 2009 Plans Focused on Open Season

- Broader work program will result in updated cost estimate essential for open season
- Awarded Gas Treatment Plant contract preliminary engineering underway
- Awarded Contract for Alaska to Alberta Mainline – preliminary engineering underway
- Ongoing work with DNR, FERC, NEB, OFC
- Continue to meet FERC prefiling requirements and engage FERC 3rd Party Contractor
- Work with AK DOTPF on infrastructure requirements
- Field work program in Canada, minimal program in Alaska
- Workforce Development (UAF, AKDOL, survey crew training)
- Stakeholder engagement in Alaska and Canada
- Progress commercial work for open season





# Denali is the only project proponent that . . .

- Has decades of Alaskan and Canadian construction and operational experience
- Gas Treatment Plant (GTP) Has the desire and experience to construct and operate the
- Has prefiled with the Federal Energy Regulatory Commission
- Has established a significant Alaska Headquarters office
- Is spending only its own money to move the project forward

economic times Denali is moving forward with confidence in uncertain